## WHAT IS CLAIMED IS:

1		1.	A method for proactively managing a fault in a video and data network	
2	comprising:			
3		collecting network correlation data for the fault;		
4		automatically performing a physical connectivity test of the video and data		
5	network;			
6		collecting physical connectivity data from the physical connectivity test;		
7		automatically performing a virtual connectivity test of the video and data		
8	network;			
9	collecting virtual connectivity data from the virtual connectivity test;			
10		auto	matically correlating the network correlation data, physical connectivity	
1)	data, and virtual connectivity data based on the fault; and			
12		prov	iding a defined resolution procedure for resolving the fault using the	
	correlated ne	twork	correlation data, physical connectivity data, and virtual connectivity data.	
Ü,		2.	The method of claim 1, wherein the video and data network comprises	
*2	a Digital Sub	a Digital Subscriber Line (xDSL) network.		
		3.	The method of claim 1, wherein the video and data network comprises	
	a Very high bit rate DSL (VDSL) network.			
1		4.	The method of claim 1, wherein collecting network correlation data	
2	comprises co	comprises collecting data for upstream and downstream physical network elements from the		
3	fault.			
1		5.	The method of claim 1, wherein collecting network correlation data	
2	comprises collecting data from a root cause analysis.			
1		6.	The method of claim 1, wherein the physical connectivity test	
2	comprises a Physical Loop Test.			
1		7.	The method of claim 6, wherein the Physical Loop Test is de-coupled	
2	from a Plain Old Telephone Service (POTS) tool.			
1		8.	The method of claim 1, wherein the virtual connectivity test comprises	

an Operations And Maintenance (OAM) test.

2

The method of claim 8, further comprising initiating the OAM test 1 9. 2 with a service area identifier. 1 10. The method of claim 9, wherein the service area identifier comprises a 2 telephone number. The method of claim 1, further comprising creating a repair ticket for 1 11. 2 the fault. 1 The method of claim 1, further comprising dispatching a technician to 12. 2 fix the fault. The method of claim 1, further comprising fixing the fault using the 13. pre-defined resolution procedure. 113